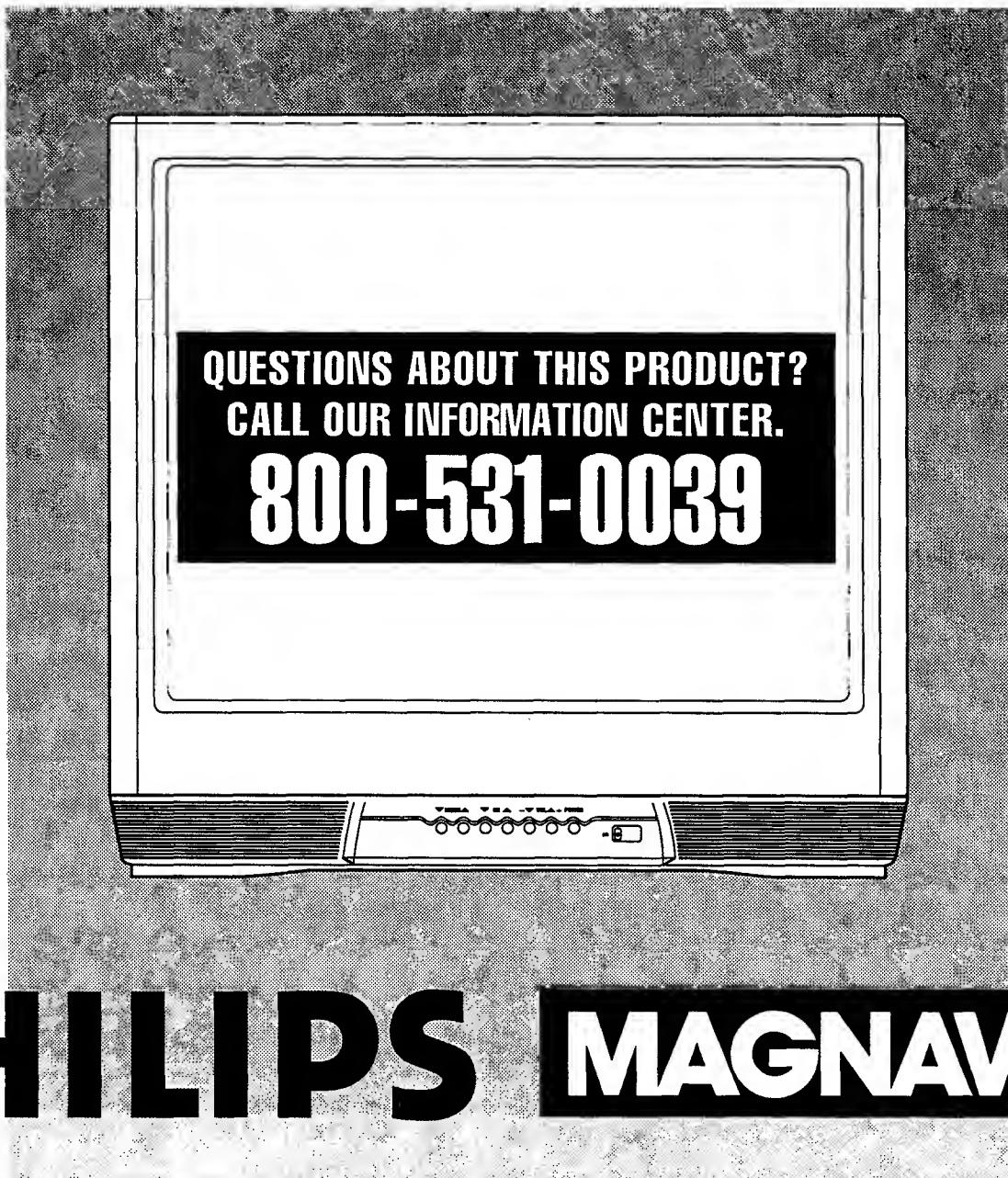


OWNER'S MANUAL

C O L O R T E L E V I S I O N



PHILIPS MAGNAVOX

IMPORTANT!
Return Your Warranty Registration Card
Within 10 Days. See Why Inside.

Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

Once your PHILIPS MAGNAVOX purchase is registered, you're eligible to receive all the privileges of owning a PHILIPS MAGNAVOX product. So complete and return the Warranty Registration Card enclosed with your purchase at once. And take advantage of these important benefits.

Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your PHILIPS MAGNAVOX warranty.

Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

Model Registration

Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers for which you qualify for as the owner of your model.

Congratulations on your purchase, and welcome to the "family!"

PHILIPS MAGNAVOX



Dear PHILIPS MAGNAVOX product owner:

Thank you for your confidence in PHILIPS MAGNAVOX. You've selected one of the best-built, best-backed products available today. And we'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the PHILIPS MAGNAVOX "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

And most importantly you can count on our uncompromising commitment to your total satisfaction. All of this is our way of saying welcome—and thanks for investing in a PHILIPS MAGNAVOX product.

Sincerely,

Robert Minkhorst
President and Chief Executive Officer

P.S. Remember, to get the most from your PHILIPS MAGNAVOX product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!

Know these safety symbols



▲ This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

▲ The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, and fully insert.

ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

PHILIPS MAGNAVOX Visit our World Wide Web Site at <http://www.philipsmagnavox.com>

SAFETY INSTRUCTIONS - Read before operating equipment

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

1. **Read Instructions** - All the safety and operating instructions should be read before the appliance is operated.
2. **Retain Instructions** - The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** - All warnings on the appliance and in the operating instructions should be adhered to.
4. **Follow Instructions** - All operating and use instructions should be followed.
5. **Water and Moisture** - The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement or near a swimming pool, etc.
6. **Carts and Stands** - The appliance should be used only with a cart or stand that is recommended by the manufacturer.
- 6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

7. **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. **Ventilation** - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
9. **Heat** - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
10. **Power Sources** - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
11. **Power-Cord Protection** - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.

12. **Cleaning** - The appliance should be cleaned only as recommended by the manufacturer.
13. **Power Lines** - An outdoor antenna should be located away from power lines.
14. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.
Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mats and supporting structure grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode. See Fig. below.
15. **Non-use Periods** - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
16. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
17. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the appliance; or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
18. **Servicing** - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

Note to the CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE (NEC)

Example of Antenna Grounding as per NEC - National Electric Code

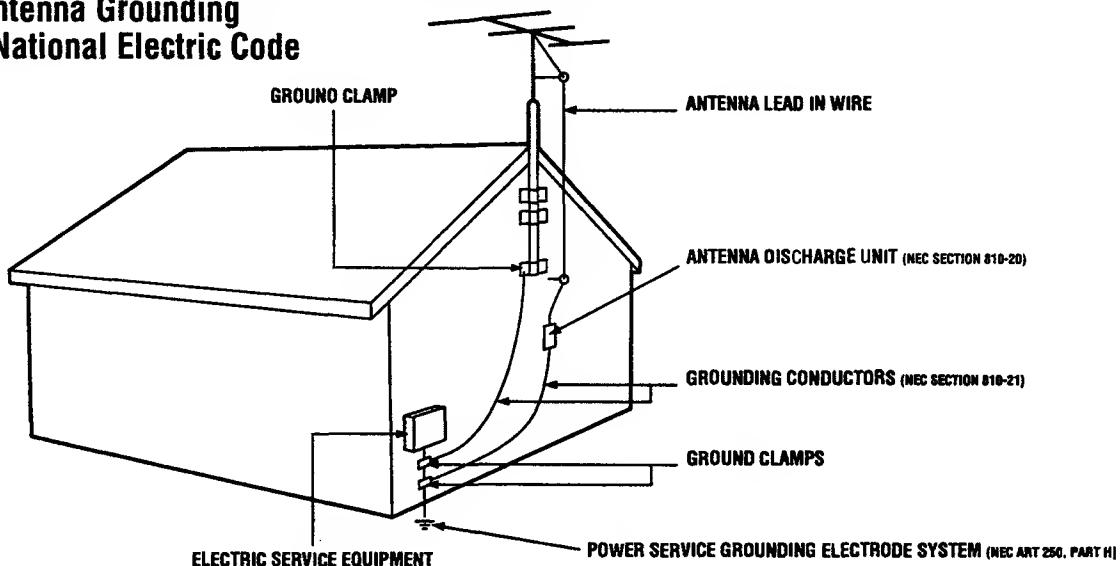


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General Information

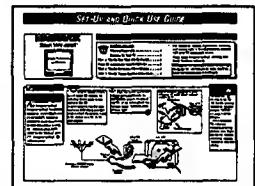
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NOTE: This owner's manual is used with several different television models. Not all features (and drawings) discussed in this manual will necessarily match those found with your television set. This is normal and does not require you contacting your dealer or requesting service.

SET-UP AND QUICK USE GUIDE

Use the simple Set-Up Guide (supplied with your TV information packet) for details on:

- Antenna Hook-ups
- First Time Set-Up (Automatic Settings)
- Basic TV and Remote Control Operation
- On-Screen Menu Use



FEATURES

Infrared Remote Control works your TV set and a variety of wireless remote control VCRs and Cable Converters.

Standard broadcast (VHF/UHF) or Cable TV (CATV) channel capability.

Stereo TV with built-in audio amplifier and twin speaker system for receiving TV programs broadcast in stereo sound.

Closed Captioning allows the viewer to read TV program dialogue or voice conversations as on-screen text.

Automatic Programming of Channels for quick and easy selection of favorite stations available in your area.

On-Screen Features (in either English, French, or Spanish) show helpful messages for setting of TV controls.

Audio/Video Jackpanel for direct connections with VCRs (or other video accessories) providing quality TV picture and sound playback.

Smart Button for the control of TV Sound and Picture levels. Use the Smart Button on the remote to quickly adjust Smart Sound (to keep volume levels consistent during program changes or commercial breaks); Smart Picture (for automatic picture adjustments on a variety of program sources).

Sleep-Timer automatically turns the TV OFF at pre-set times.

HOW TO SET THE TV FOR CABLE TV OPERATION

NOTE: If you went through Setup (in your Quick Use Guide), this task has already been completed for you.

You need to make sure that the TV is set to pick up either Cable TV stations or Antenna signals. In other words, the TV needs to know whether you have connected a Cable TV signal or a normal antenna to its ANTENNA plug.

BEGIN

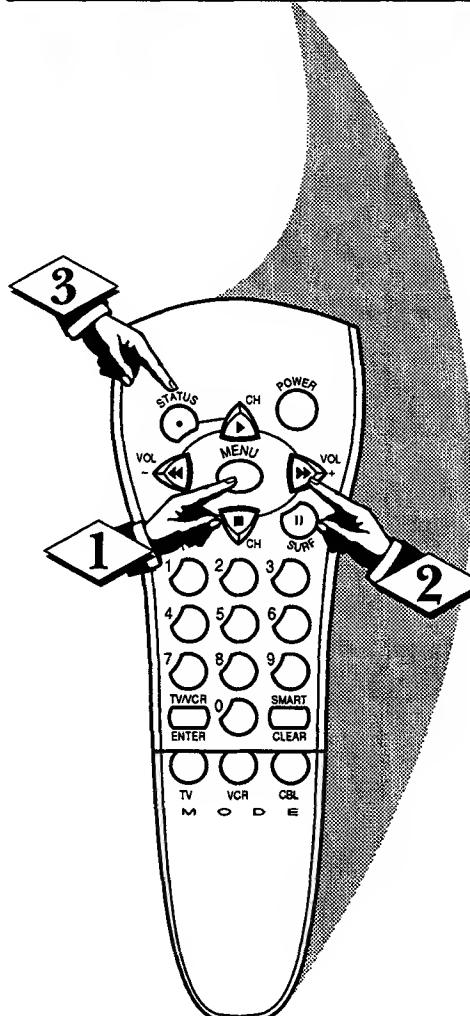
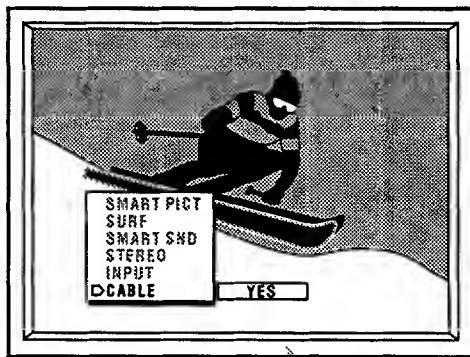
- 1 Press the MENU (M) button on the remote, then press the CHANNEL **▲** or **▼** buttons to select the word CABLE with the TV's on-screen arrow.
- 2 Press the **(+)** button (on the TV or the remote) to select either:
YES- If you **DO** have Cable TV connected to the TV. Channels 1-125 can be selected.
NO- If you have an Antenna connected to the TV. Channels 2-69 can be selected.
- 3 Press STATUS to clear the screen.



SMART HELP

Try it out. Press **CHANNEL ▲▼** buttons and scan the channels.

Remember, the TV has been set at the factory to select certain channel numbers. See the following page on how to set the TV to select the channels in your area.



ADDING CHANNELS IN MEMORY (MANUALLY)

Auto Programming (see page 2 of the Quick Use Guide) adds all the channels it can find (on your Antenna or Cable TV system) into the TV's memory. Add/Delete Channels makes it easy for you to add other channels, or drop unwanted channels, from the list of channels in the TV's memory.

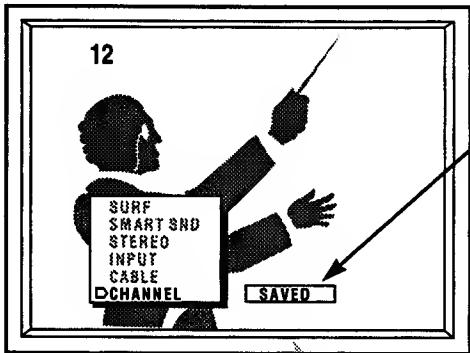
BEGIN

- 1 Press the MENU (M) button on the remote, then press the CHANNEL **▲** or **▼** buttons to select the word CHANNEL with the TV's on-screen arrow.
- 2 Press the CHANNEL NUMBER buttons on the remote to select the channel you want to SAVE (or DELETE.)
- 3 Press the (+) button to SAVE the selected channel number into memory.
Press the (-) button to DELETE a channel from memory.
- 4 Press the STATUS button to clear the screen after adding all the channels you want.

STOP

SMART HELP

Try it out. Press the CHANNEL **▲** **▼** buttons. The channels you SAVED should appear. The channels you DELETED should not appear. Remember, you can also add the VCR/AUX mode (see page 11) into the TV's channel memory. Then by pressing the CH **▲** **▼** buttons you can quickly select the Audio/Video Input jacks on the rear of the TV.

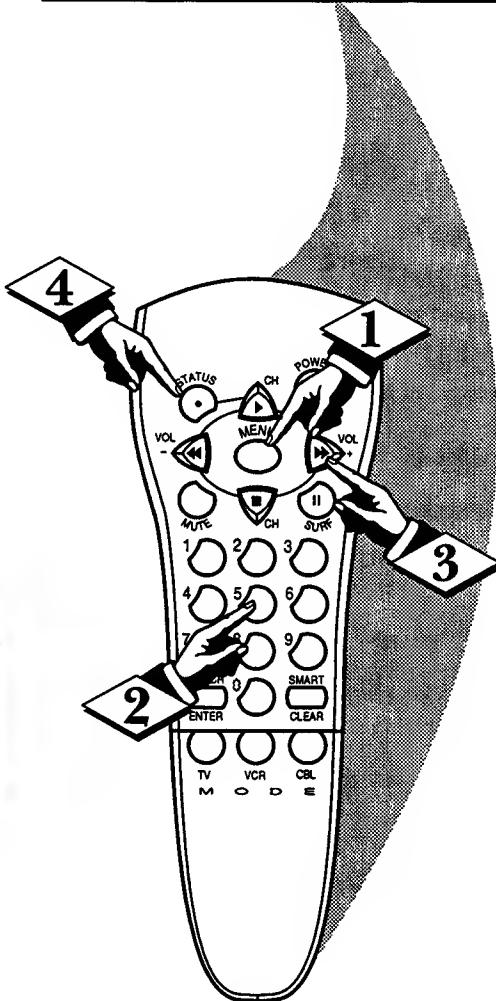


NOTE: You can also add the VCR/AUX mode into the TV's channel memory. Then you can quickly select the Audio/Video Input jacks on the rear of the TV by pressing the Channel **▲** **▼** buttons.

To "SAVE" the VCR/AUX mode into the TV's channel memory:

- With the on-screen menu displayed, press the CH **▲** or **▼** button and select the INPUT control.
- Press the (+) or (-) button to place the TV in the VCR/AUX mode.
- Press the CH **▲** or **▼** button to reselect the CHANNEL control.
- Press the (+) button to "SAVE" VCR/AUX mode into the TV's channel scan memory.
- Press the STATUS button to clear the Menu from the screen.

Try it out. Press the **▲** **▼** buttons to be sure the VCR/AUX mode is present. (Should appear between the highest and lowest broadcast channels within your TV's scan memory.)



HOW TO SELECT THE CLOSED CAPTION FEATURE

Closed Captioning allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired this feature uses on-screen "text boxes" to show dialogue and conversations while the TV program is in progress.

BEGIN

- 1 Press the MENU (M) button on the remote, then press the CHANNEL ▲ or ▼ to select the word CAPTION with the TV's on-screen arrow.
- 2 Press the (+) button to select the desired Closed Caption (CC) mode - For Example: CAPTION 1.

CAPTION 1, or 2 mode:

dialogue (and descriptions) for the action on the captioned TV program shows on-screen. (See important note on this page.)

Note: Usually "CAPTION" 1 is the most used mode to view captioned material.

- 3 Press the STATUS button after making your Caption mode selection.

The TV display will clear and Captioning material (if available on the currently selected TV program) will appear on the TV screen.

To cancel, set the CAPTION feature to OFF when finished viewing.

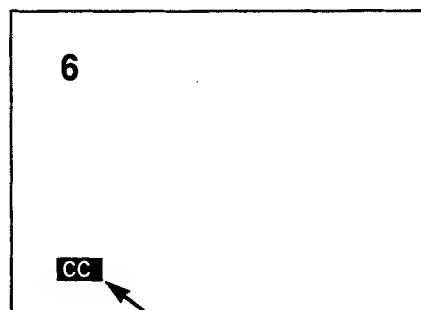
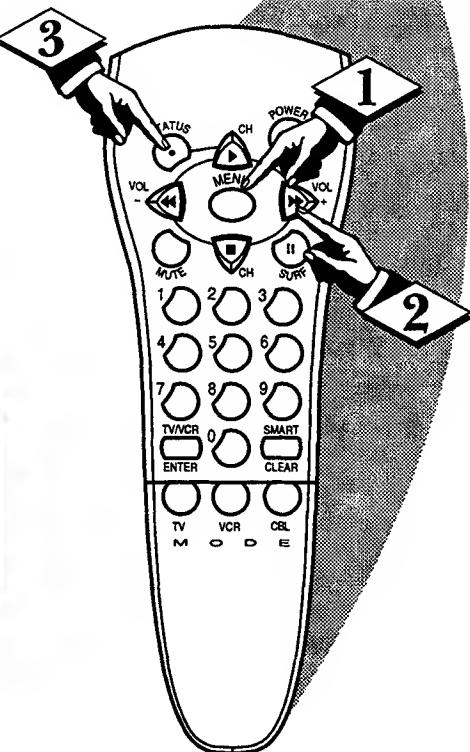
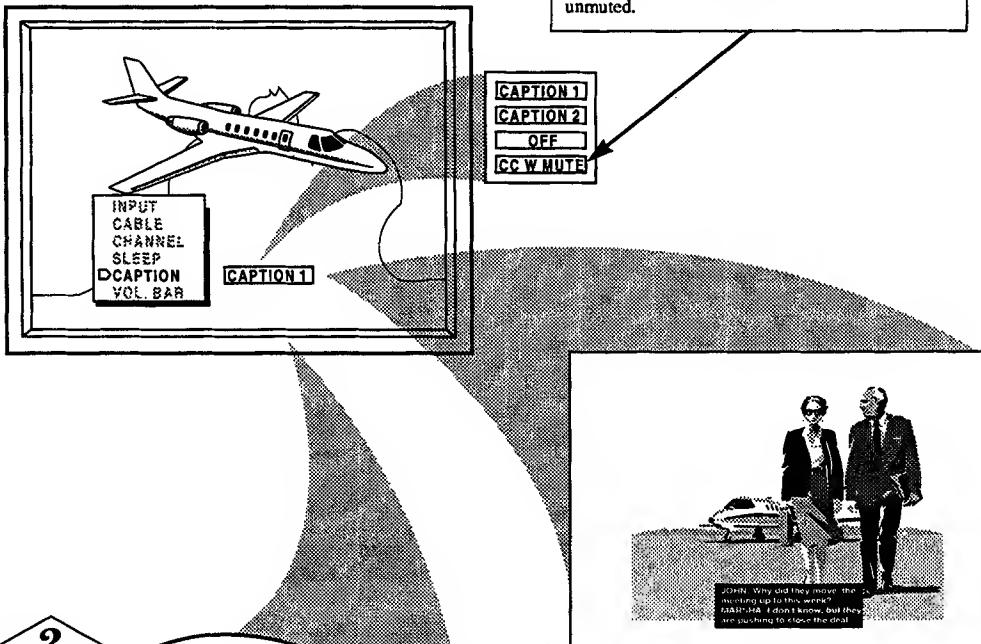


SMART HELP

Remember, broadcast stations will often use spelling abbreviations, symbols, dropouts and other grammatical shortcuts in order to keep pace with the on-screen action. These type factors vary upon the source of the captioned text material and do not indicate a need for service on the part of the TV.

NOTE: Not all TV programs and product commercials are made for broadcast with Closed Caption (CC) information included. Neither are all Closed Caption modes (CAPTION 1-2) necessarily being used by a broadcast station during the transmission of a closed caption program. Refer to your area's TV program listings for the stations and times of Closed Caption shows.

NOTE: The "CC W/MUTE" setting automatically switches the TV to the Closed Caption 1 mode whenever the MUTE button (on the remote control) is pressed. The Closed Caption 1 mode will turn OFF when the TV sound is returned or unmuted.



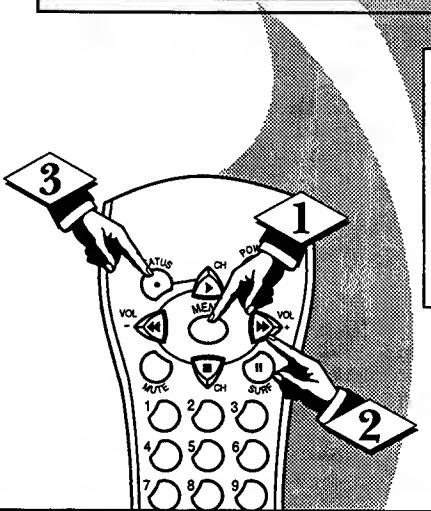
HOW TO SET THE TV FOR STEREO PROGRAMS

Your TV can receive broadcast stereo TV programs. The TV has both an amplifier and twin speakers through which the stereo sound can be heard.

BEGIN

- 1 Press the MENU (M) button on the remote, then press the CHANNEL Δ or ∇ buttons to select the word STEREO with the TV's on-screen arrow.
- 2 Press the (+) button to turn the STEREO MODE ON.
- 3 Press STATUS to clear the screen.

STOP



SMART HELP

Remember, if stereo is not present on a selected show and the TV is placed in the STEREO mode, the sound coming from the set will remain monaural (mono.)



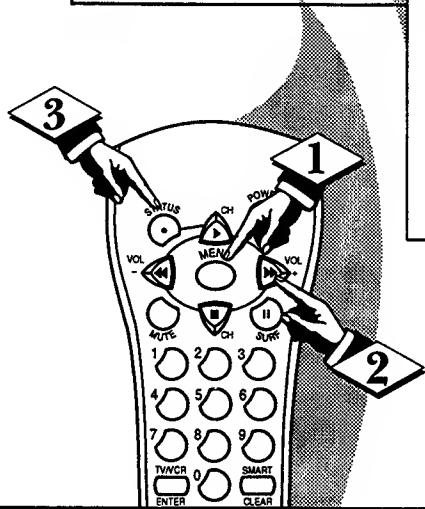
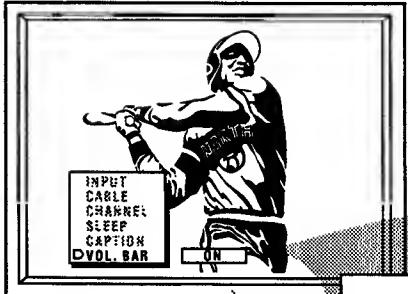
USING THE TV VOLUME BAR CONTROL

Use the Volume Bar control to see the TV's volume level settings on the TV screen. Once set the Volume Bar will be seen each time the VOLUME buttons (on the TV or remote) are pressed.

BEGIN

- 1 Press the MENU (M) button on the remote, then press the CHANNEL Δ or ∇ buttons to select the words VOL. BAR with the TV's on-screen Arrow.
- 2 Press the (+) button to turn the VOL BAR control ON.
- 3 Press STATUS button to clear the screen.

STOP



SMART HELP

Try it out. Press the VOL Δ ∇ buttons. The VOL-UME BAR should appear at the bottom of the screen.



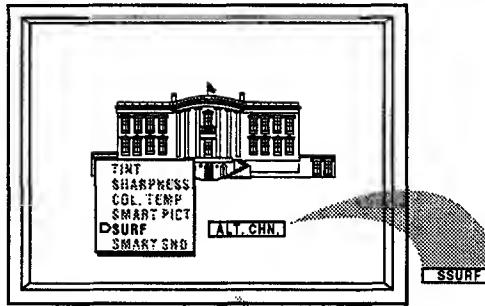
SETTING THE ALTERNATE CHANNEL AND SURF CONTROL

A "list" or series of previously viewed channels can be selected with the SURF button on your remote control. With this feature you can easily switch between different TV programs that currently interest you. The Surf control allows you to set up to 8 channels in its quick viewing "list".

BEGIN

- 1 Press the MENU (M) button on the remote, then press the CHANNEL ▲ or ▼ buttons to select the word SURF with the TV's on-screen arrow.
- 2 Press the (+) button to select either ALT. CHN. (Alternate Channel) or SURF. See explanation of Surf options with the illustration on this page.
- 3 Press STATUS button to clear the screen.

STOP



ALT. CHN.
(Alternate Channel) - Current and one previous channel.
SURF - Current and up to seven additional channels available.
Note: the Channel Surf can be used with fewer than eight channels. In this way the number of Surf channels can match or fit your present viewing interests.

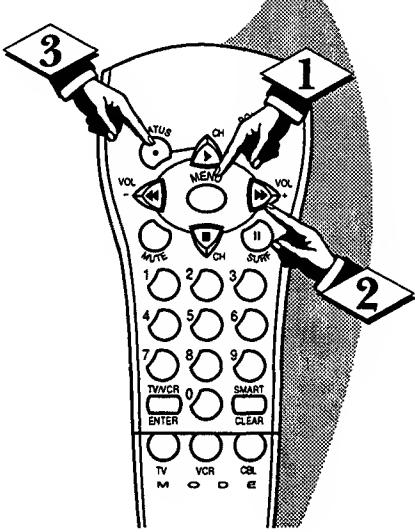
SMART

HELP

To Use
Alternate Channel:

With the ALT.CHN. control ON, select the two desired channels for viewing with the number buttons on the remote control.

Press the SURF button on the remote to "toggle" between the two selected channels.



When using SURF:

Remember, you can add as many as eight channels in the Smart Surf Memory.

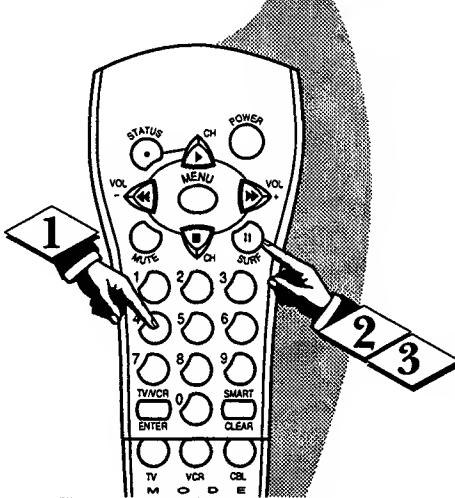
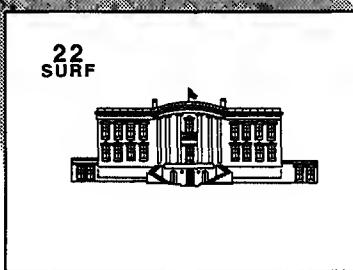
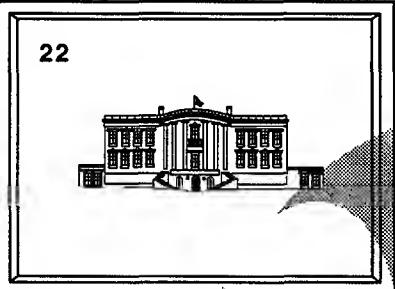
How To Use SURF

BEGIN

- 1 With the SURF control ON (see above), select a desired channel for viewing. You can use the number buttons on the remote (or the Channel ▲ or ▼ buttons).
- 2 Press the SURF button on the remote while the channel display is still present on the TV's screen.
- 3 Press the SURF button on the remote to quickly review current action on channels contained within the Surf list.

Repeat steps above to add up to eight channels in the SURF channel memory ring.

STOP



Note: There are two methods to delete channels from the 8-channel SURF control ring:

- To remove all channels from the SURF memory (with the exception of channel 3 which will be left within the SURF list.) - Select the CABLE control in the On-screen menu and press the (+), (-) buttons. Adjust the control "YES/NO/YES" if you have Cable TV; or "NO/YES/NO" if you are in the broadcast Antenna mode.
- To remove all channels from the SURF memory (with the exception of the last viewed and currently selected channels.) - From the SURF on-screen control option press the (+) or (-) button to select the ALT.CHN. control in the on-screen menu. Press the (+) or (-) button again to reselect the SURF option.

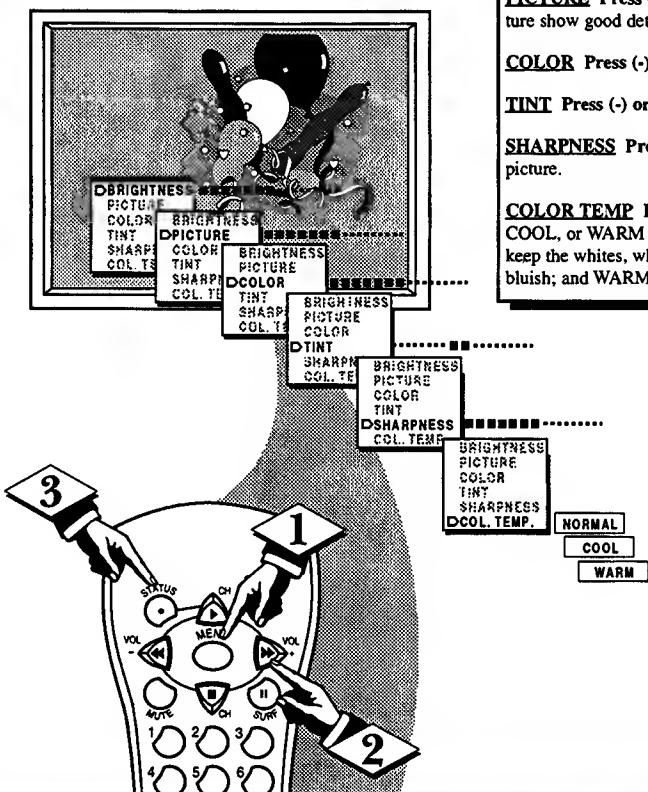
HOW TO ADJUST THE TV PICTURE

To adjust your TV picture controls, select a channel and follow the steps shown below:

BEGIN

- 1 Press the MENU (M) button on the remote, then press the CHANNEL Δ or ∇ buttons until the desired control shows on-screen.
- 2 Press the (+) and (-) buttons to adjust the selected color control.
- 3 Press the STATUS button to clear the screen when picture adjustments are completed.

STOP



BRIGHTNESS Press (-) or (+) until darkest parts of the picture are as bright as you prefer.

PICTURE Press (-) or (+) until lightest parts of the picture show good detail.

COLOR Press (-) or (+) to add or eliminate color.

TINT Press (-) or (+) to obtain natural skin tones.

SHARPNESS Press (-) or (+) to improve detail in the picture.

COLOR TEMP Press (-) or (+) to select NORMAL, COOL, or WARM picture preferences. (NORMAL will keep the whites, white; COOL will make the whites, bluish; and WARM will make the whites, reddish.)

SETTING THE SLEEP TIMER CONTROL

Have you ever fallen asleep in front of the TV only to have it wake you up at two in the morning with a test pattern screeching in your ears? Well, your TV can save you all that trouble by automatically turning itself off.

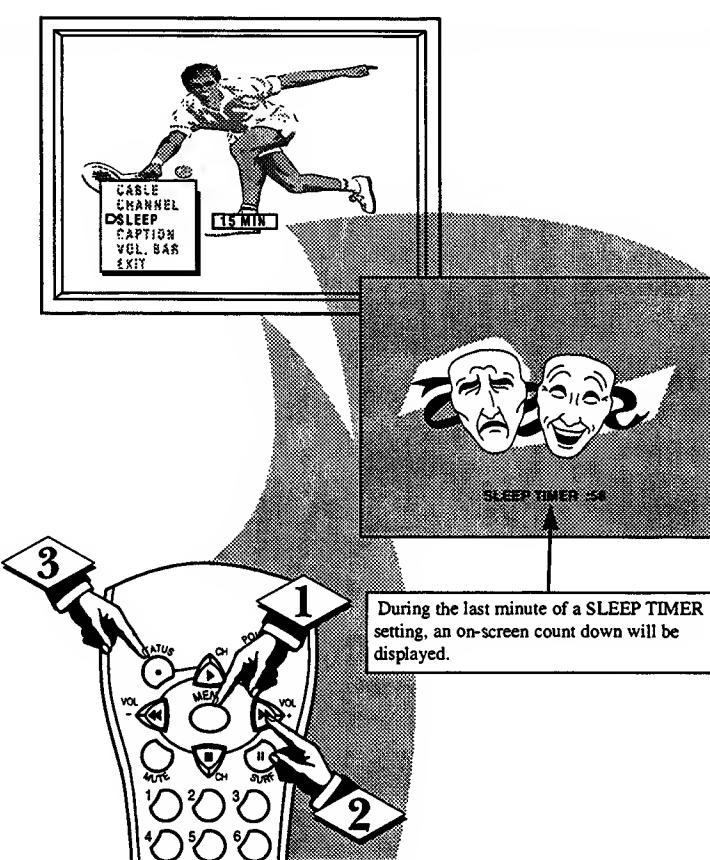
BEGIN

- 1 Press the MENU button on the remote. Note: Press the CHANNEL Δ or ∇ on the remote or TV to select the word SLEEP with the TV's on-screen arrow.
- 2 Press the VOLUME (+) button repeatedly to pick the amount of time (15 minutes to 2 hours ahead) before the TV will turn itself off.
- 3 Press the STATUS button to clear the screen after you have set the time for the TV to turn off.

The (+), (-) buttons on the TV can also be used to set the amount of time.

An on-screen count down will appear during the last minute before the TV shuts itself off.

STOP



SMART HELP



Remember, to see how many minutes are left before the TV shuts itself off, press the STATUS button on the remote.

To stop a SLEEP TIMER setting, reset the timer back to OFF. (Turning the TV off and on, or pressing a button during the last minute of a timer setting, will also cancel a setting.)

HOW TO USE THE AUDIO/VIDEO INPUT JACKS (CONTINUED)

You can view the playback of VCR tapes (Video Disc Players, camcorders, etc.) by using the **AUDIO** and **VIDEO INPUT** jacks (on the rear of the TV).

For example: to view the playback of a VCR tape:

BEGIN

1 Connect the **VIDEO** and **AUDIO IN**(put) jacks on the TV to the **AUDIO** and **VIDEO OUT**(put) jacks on the VCR.

2 Press the **MENU (M)** button on the remote, then press the **CHANNEL ▲** or **▼** buttons to select the word **INPUT** with the TV's on-screen arrow.

Note: You can press the **CHANNEL ▲▼** buttons to select "VCR/AUX" (if it has been added to the TV's channel memory.) See page 6 for details.

3 Press the **(+)** button to select the **VCR/AUX**(iliary) **INPUTS** on the rear of the TV.

4 Turn the **VCR ON** and **PLAY** the VCR tape to be viewed on the TV.

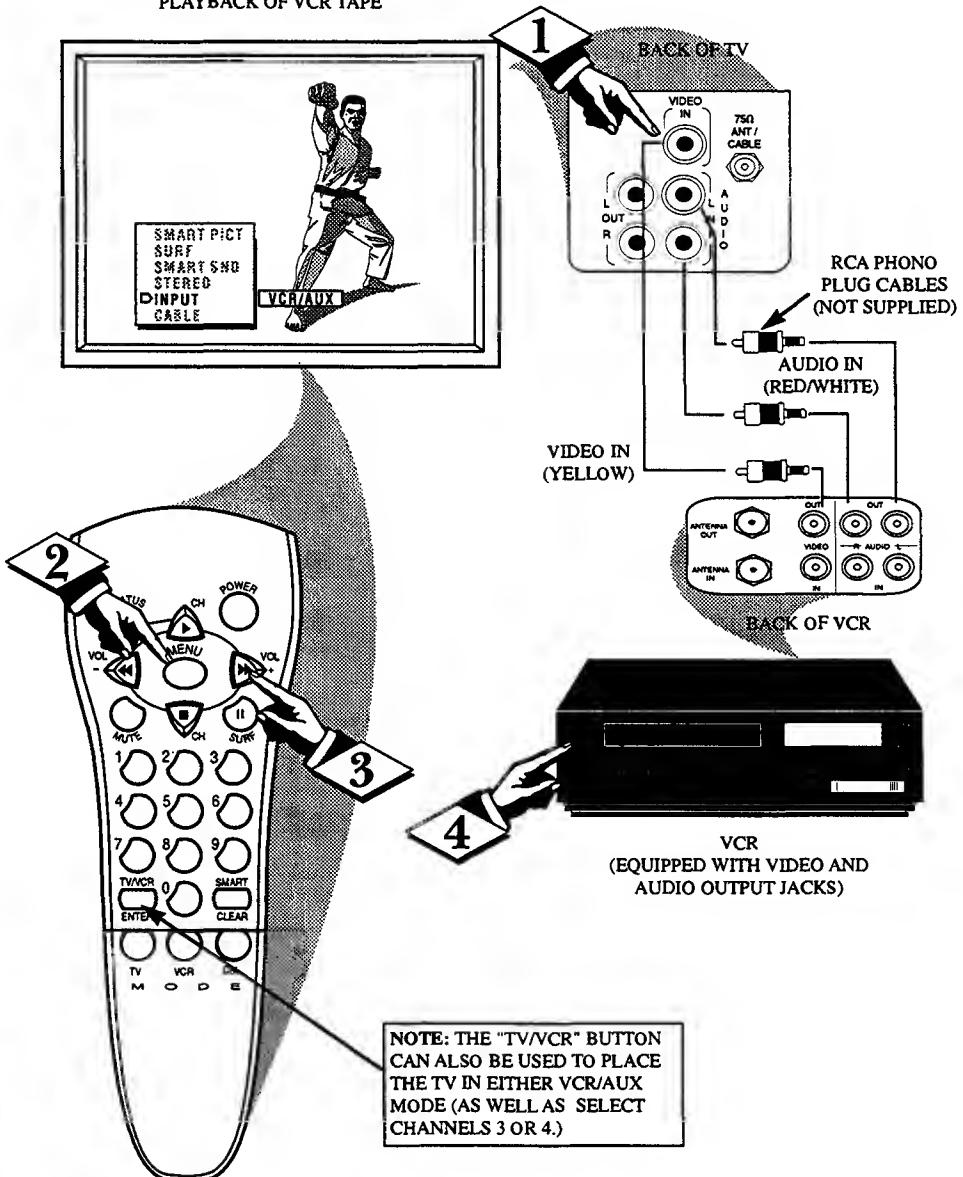
STOP

SMART HELP

Remember, when you're through using the A/V INPUT jacks, return the INPUT display screen on the TV to **ANTENNA**. If you leave the TV in the **VCR/AUX** INPUT mode and there is no signal source connected to the jacks, you will be seeing only a blank screen on the TV.

NOTE: If you have a mono (single audio OUTPUT) VCR, "Y" Connectors are available (from your dealer or Parts Information Center 1 800 292-6066) to connect to the audio inputs on the TV.

PICTURE AND SOUND FROM
PLAYBACK OF VCR TAPE



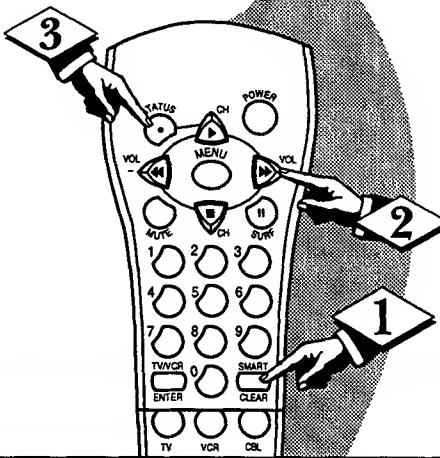
USING THE SMART PICTURE CONTROL

Whether you're watching a movie or a video game your TV has automatic video control settings matched for your current program source or content. The Smart Picture feature quickly resets your TV's video controls for a number of different types of programs and viewing conditions you may have in your home. Each Smart Picture setting is preset at the factory to automatically adjust the TV's Picture, Color, and Sharpness viewing control levels.

BEGIN

- 1 Press the Smart button on the remote to select the SMART PICT feature (highlighted with the arrow).
- 2 With the Smart Picture control selected, press the (+) or (-) button repeatedly to select any of the preset viewing categories (Example: Video Games, Movies, etc.).
- 3 Press STATUS button to clear the screen.

STOP



SMART HELP

Remember, the video control settings for the Smart Picture categories are memo- rized into the TV at the factory and can only be reset by field and service technicians.

Pressing the SMART button repeatedly toggles between the Smart Picture and Smart Sound controls.

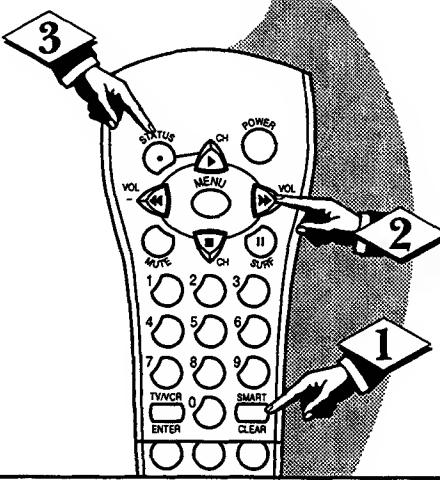
USING THE SMART SOUND CONTROL

Are you tired of the sound of commercials following you into the next room or all through the house? Smart Sound allows you to preset a desired volume level that the TV sound will not go above. This makes for an even, more consistent sound by reducing the peaks and valleys that can occur during program changes or commercial breaks.

BEGIN

- 1 Press the Smart button on the remote until the SMART SND feature is highlighted with the on-screen arrow.
- 2 With the Smart Sound control selected, press the (+) or (-) button to turn the volume level control ON or OFF.
- 3 Press the STATUS button to clear the screen when completed.

STOP



SMART HELP

Remember, Smart Sound works only with the programs coming through the Antenna/Cable input on the rear of the TV (RF audio). It will not control the sound levels for the Auxiliary (VCR/AUX IN) audio inputs.

Pressing the SMART button repeatedly toggles between the Smart Picture and Smart Sound controls.

SETTING THE REMOTE TO WORK VCRs

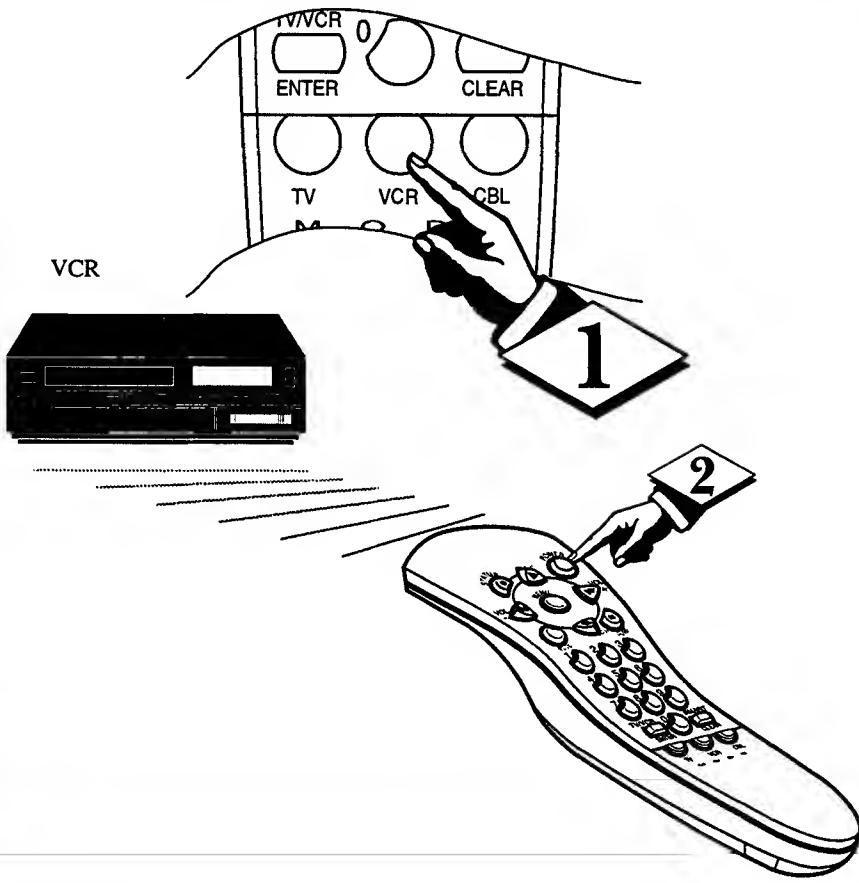


Your remote control is set to work your TV and many infrared remote (IR) control VCRs. However, an easy one-time step may be necessary before the remote will work your VCR.

Try this initial check to see if going on to the following section is necessary.

BEGIN

- 1 Press the VCR System button on the remote.
- 2 Point remote toward VCR and press the POWER button.
- 3 Does the remote turn the VCR ON?
IF YES, and try the other VCR buttons on the remote. If they also work the VCR, then the remote is ready and no further steps are needed.
If NO, continue...



- 1 First look up a **TWO-DIGIT remote code number** for your brand VCR before going through the simple "1,2,3" steps (on the following page).

continue to next page

SMART HELP

Remember, if more than one number is listed, you may have to try more than the first two-digit code given in order to locate your VCR's remote code.

VCR BRAND	REMOTE CODE NO.	VCR BRAND	REMOTE CODE NO.
Akai	24, 25, 36	Panasonic	01, 02, 52
Capehart	33	Philips	00, 05
Conoid	13	Philips Video CD	37
Curtis Mathes	42	RCA	04, 32, 42, 43, 44
Daewoo	33	Samsung	22, 30
Emerson	20, 31, 34, 40	Sansui	49
Fisher	06, 07	Sanyo	13
Goldstar	23	Sears	08
Go Video	45, 46	Sharp	11, 12
Hitachi	03, 51	Shintom	35
JVC	14, 47, 48	Sony	09, 10, 41
Magnavox	00, 05	Teknika	26
Matsushita	01, 02	Toshiba	18, 19
Mitsubishi	16, 17, 38, 39, 50	Video Concepts	29
Multitech	27, 28	Zenith	15
NEC	21		

Now that you have looked up the two-digit Remote Code Number for your brand of VCR (on previous page), you are ready to follow the four simple steps below.

Please read through steps 1-4 before beginning.

BEGIN

- 1 Press and release the STATUS button.
- 2 Within thirty seconds after releasing the STATUS button, press and release the VCR System button.
- 3 Within thirty seconds after releasing the VCR System button, **ENTER THE TWO DIGIT CODE NUMBER** for the desired VCR. The remote is now ready to send commands to the VCR.
- 4 Point the remote at the VCR. Press the POWER button on the remote to turn the VCR ON.

STOP

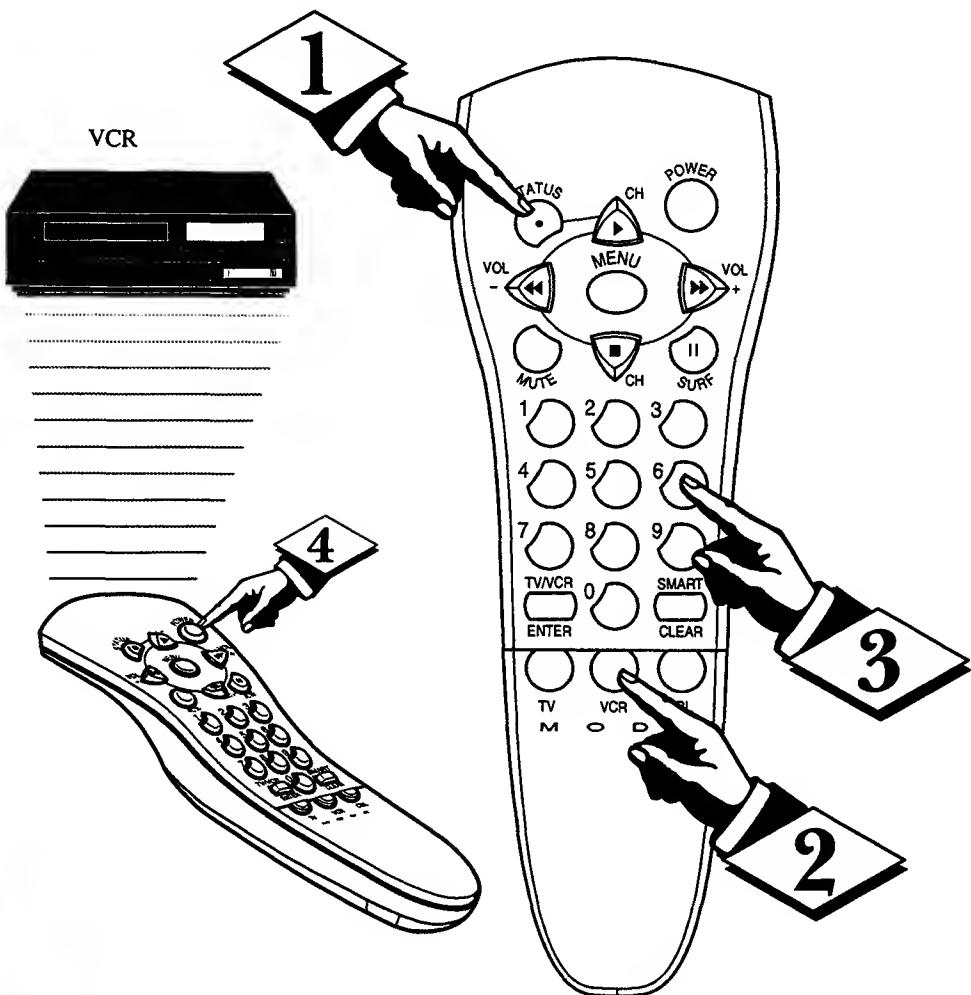
SMART HELP

 Try it out. The Channel and VCR buttons on the remote should now operate the VCR.

Remember, if this doesn't work the first time, repeat steps using the same remote code number.

If after a second try the remote does not operate your VCR, and there are more code numbers listed for your brand VCR, use the next listed code number.

If after repeated attempts the code number method does not work your VCR, try the "VCR SEARCH" method on page 17.



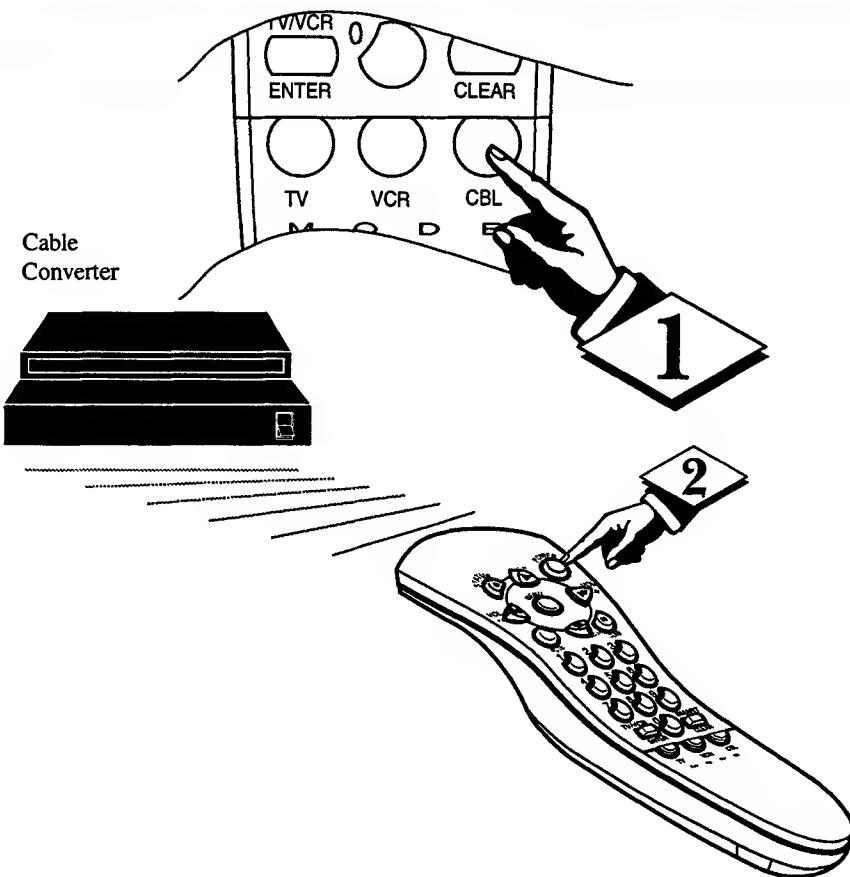
SETTING THE REMOTE TO WORK CABLE TV CONVERTERS

Your remote control is set to work your TV and many infrared remote (IR) control Cable Converters. However, an easy one-time step may be necessary before the remote will work your Converter.

Try this initial check to see if going on to the following section is necessary.

BEGIN

- 1 Press the CBL System button on the remote.
- 2 Point remote toward Cable Converter and press the POWER button.
- 3 Does the remote turn the Converter ON?
IF YES,  and try the CH  and CH number buttons on the remote. If they also work the Converter then the remote is ready and no further steps are needed.
If NO, continue...



- 1 First look up a **TWO-DIGIT remote code number** for your brand Converter before going through the simple "1,2,3" steps (on the following page).

continue to next page

SMART HELP

 Remember, if more than one number is listed, you may have to try more than the first two-digit code given in order to locate your Converter's remote code.

CONVERTER BRAND	REMOTE CODE NO.	CONVERTER BRAND	REMOTE CODE NO.
Archer	28	Rembrant	33
Diamond	23	Salora	52
Drake	37	Scientific Atlanta	08, 22, 47
Gemini	45	Sheritech	34
Hamlin	14, 15	Starcom	30
Hitachi	25	Sylvania	16
Jerrold	00, 01, 02, 03, 04, 05, 46, 55	Texscan	48
Macom	29, 38	Tocom	12, 13, 53
Magnavox	17, 31	Toshiba	43
NSC	49	Uniden Satellite	44
Oak	06, 27, 39	Unika	50
Panasonic	18, 35	United Satellite	54
Philips	19, 20, 21, 24, 26	Universal	36
Pioneer	09, 32	Video Tech	40
Regency	10, 11	Video Way	51
		Zenith	07, 41, 42

Now that you have looked up the two-digit Remote Code Number for your brand of Cable Converter (on previous page), you are ready to follow the four simple steps below.

Please read through steps 1-4 before beginning.

BEGIN

- 1** Press and release the STATUS button.
- 2** Within thirty seconds after releasing the STATUS button, press and release the CBL System button.
- 3** Within thirty seconds after releasing the CBL System button, ENTER THE TWO DIGIT CODE NUMBER for the desired Converter. The remote is now ready to send commands to the Converter.
- 4** Point the remote at the Converter. Press the POWER button on the remote to turn the Converter ON.



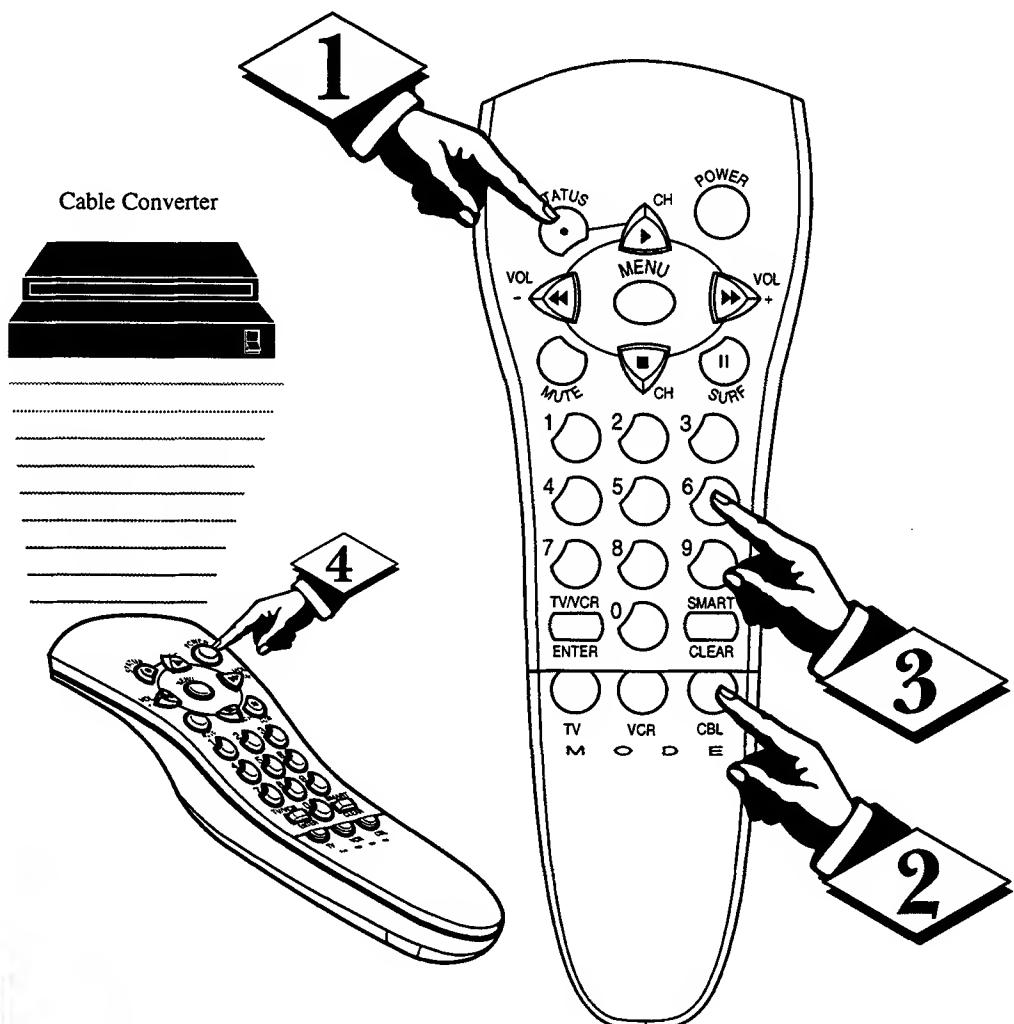
SMART HELP

Try it out. The Channel and POWER buttons on the remote should now operate the Converter.

Remember, if this doesn't work the first time, repeat steps using the same remote code number.

If after a second try the remote does not operate your Converter, and there are more code numbers listed for your brand Converter, use the next listed code number.

If after repeated attempts the code number method does not work your Converter, try the "CONVERTER SEARCH" method on page 17.





Your TV remote can be set to work your VCR or Cable Converter by what is called the **SEARCH** method.

If the "REMOTE CODE" number method shown in the previous section did not set your remote to work your VCR or Converter, then follow the easy steps listed below.

Please read through steps 1-4 before beginning.

BEGIN

- 1 Press the **POWER** button on the VCR or Converter to turn the unit ON.
- 2 Stand at least six feet away from the front of the VCR or Converter. Point the remote toward the unit. **HOLD DOWN** the **SURF** and the desired System (VCR or CBL-Converter) buttons at the same time. **KEEP HOLDING** BUTTONS DOWN.
- 3 Watch the Channel Indicator on the unit. Channel Numbers will **SCAN UP** when the unit has been identified. This may take up to two minutes.
- 4 Release the **SURF** and System (VCR or CBL) buttons as soon as channel numbers start to scan up. The code has been identified and the remote is ready to operate with the VCR or Converter.

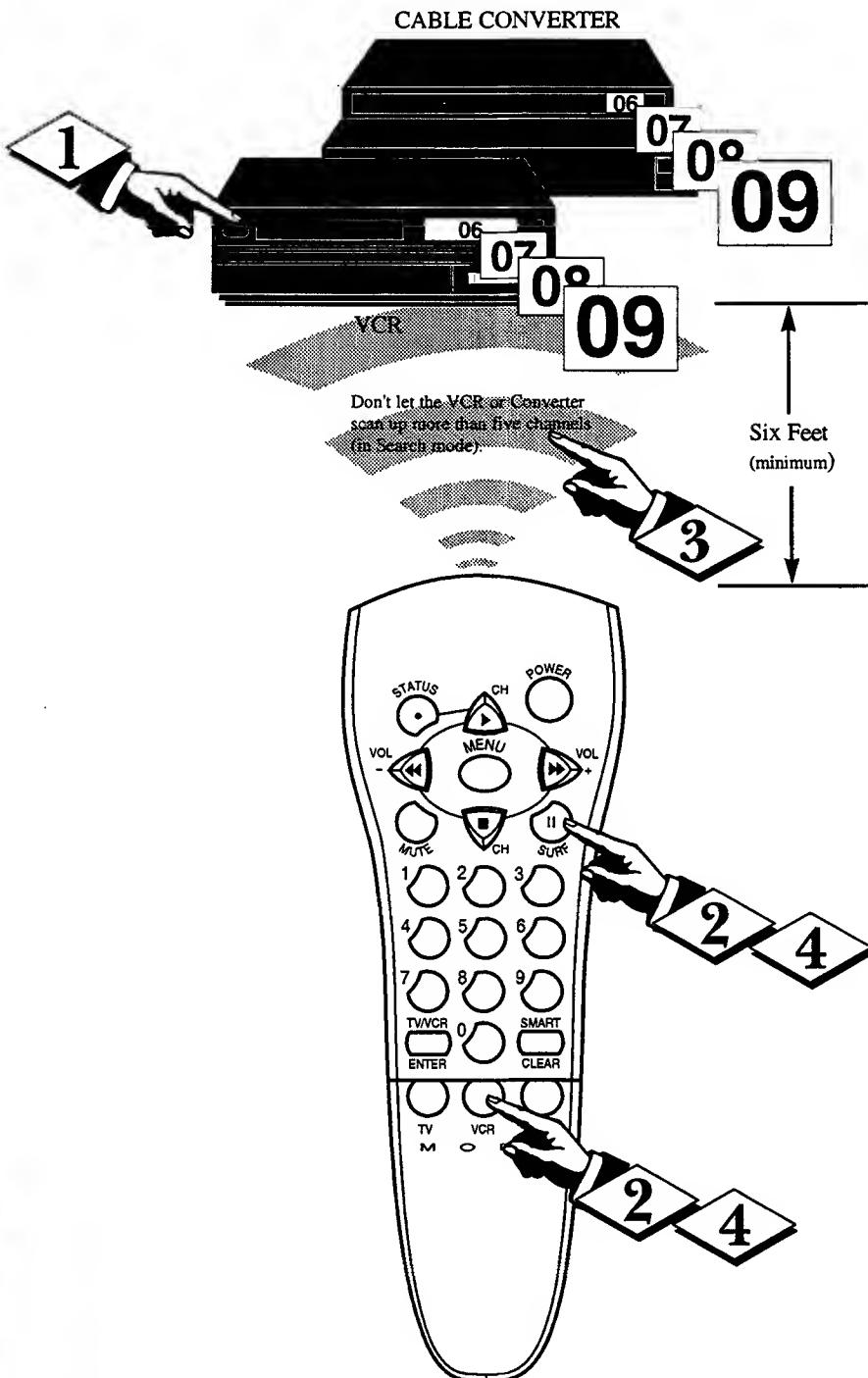


SMART HELP

Remember, a minute or two can seem very long, but the code should be located within two minutes.

Don't let the VCR scan up more than five channels. If you do the remote may pass up the right code and another two minute search cycle will have to be repeated.

If no channel change happens within two minutes, repeat steps 1-4. Should a channel change still not occur, the remote will not work with the desired unit.



USING THE REMOTE'S VCR BUTTONS

When using the TV remote with a VCR, first make certain it is set to control your VCR (by the REMOTE CODE or SEARCH method - see earlier section).

BEGIN

1 Press the VCR System button on the remote.

2 Point the top of the remote toward the front of the VCR (remote sensor window) when pressing buttons.



Record Buttons

Hold the STATUS button down, and then press the PLAY button to begin a VCR recording.

Rewind Button

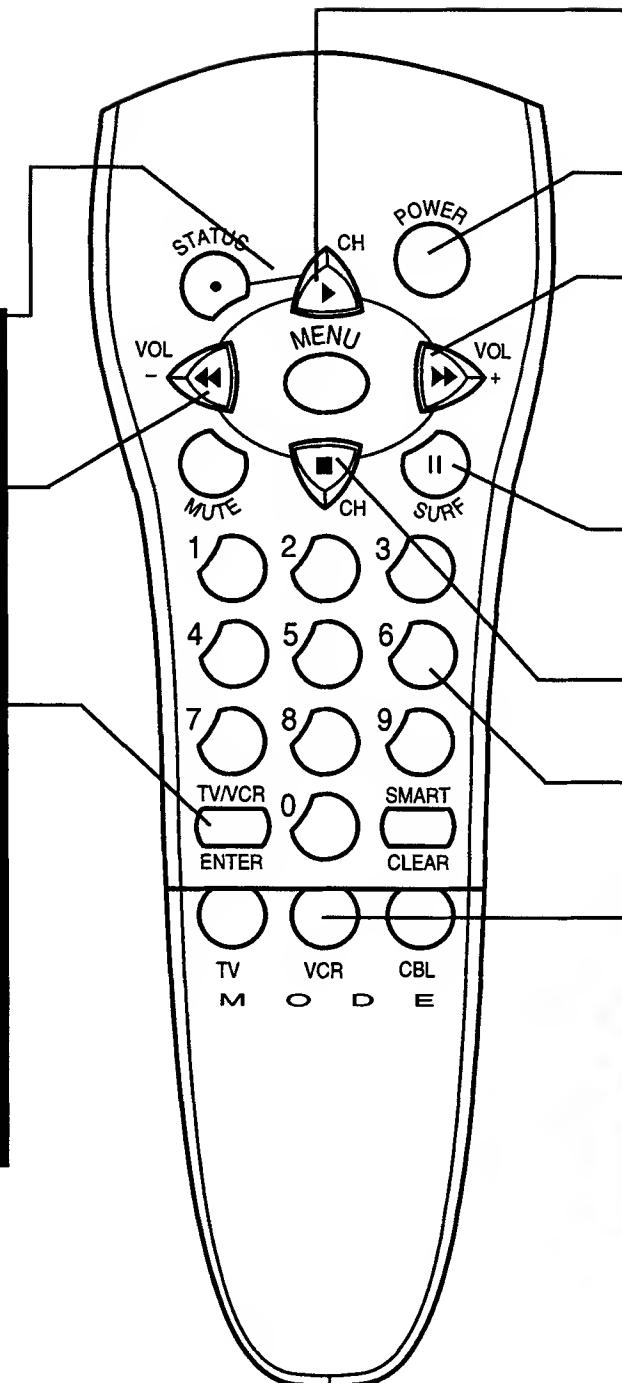
Press to rewind tapes. For some VCRs you may need to press STOP button first then REWIND. In playback mode hold button down to view picture moving rapidly in reverse.

TV-VCR Button

Press to the VCR position ("VCR" indicator on the VCR will light) to view the playback of a tape. Press again to place in the TV position ("VCR" indicator on the VCR will go OFF) to view one program while recording another program.

When used with the TV the TV/VCR button works as a source button.

Each press cycles the TV between channels 3 and 4; or the VCR/AUX Input mode. It is a quick one-button way to select these channels and modes (without directly entering the TV's Menu system.)



Play Button

Press to playback a tape. Hold down after pressing the RECORD button to start a recording.

Power Button

Press to turn the VCR ON and OFF.

Fast Forward Button

Press to rapidly advance the tape. For some VCRs you may need to press STOP first then FF. In Playback mode hold button down to view the picture moving rapidly in the forward direction.

Pause Button

Press to temporarily stop the tape during a playback or recording. Press again to release Pause.

Stop Button

Press to stop the tape.

Number Buttons

Press buttons for direct VCR channel selections .

VCR System Button

Press to send remote commands to the VCR.

SMART HELP



Remember, the VCR buttons on the remote will not operate your VCR if those features are not already found on your VCR remote control.

Note: All VCR functions (particularly Search, Rewind, Fast Forward, etc.) will operate the same as with the original VCR remote control provided with the VCR.

Please make these simple checks before calling for service. These tips can save you time and money since charges for TV installation and adjustment of customer controls are not covered under your warranty.

No Power

- Check the TV power cord. Unplug the TV, wait 10 seconds, then reinsert plug into outlet and push POWER button again.
- Check to be sure outlet is not on a wall switch.

No Picture

- Check antenna connections. Are they properly secured to the TV's ANT/CABLE plug?
- Check the CABLE/ YES NO control for correct position.
- Check INPUT control for correct position. The VCR-AUX position with out a signal source will result in a blank screen.

No Sound

- Check the VOLUME buttons.
- Check the MUTE button on the remote control.
- If attempting auxiliary equipment hook-ups, check audio jack connections.

Remote Does Not Work

- Check TV-VCR-CBL "System" buttons on the remote. Press the remote's TV System button to send commands to the TV.
- Check batteries. Replace with AAA Heavy Duty (Zinc Chloride) or Alkaline batteries if necessary.
- Clean the remote and the remote sensor window on the TV.
- Check the TV power cord. Unplug the TV, wait 10 seconds, then reinsert plug into outlet and push POWER button again.
- Check to be sure TV outlet is not on a wall switch.

TV Displays Wrong Channel or No Channels Above 13

- Repeat channel selection.
- Add desired channel numbers (CHANNEL control) into TV memory.
- Check CABLE/ YES NO control for correct position.

This TV is equipped with protective circuitry that shuts the TV off in case of moderate power surges. Should this occur turn the TV back on by pressing the POWER button once or twice, or unplug (wait 10 seconds) and then replug the power cord at the AC outlet. This feature is NOT designed to prevent damage due to high power surges such as those caused by lightning, which is not covered by your warranty.

Cleaning and Care

- To avoid possible shock hazard be sure the TV is unplugged from the electrical outlet before cleaning.
- When cleaning the TV screen take care not to scratch or damage the screen surface (avoid wearing jewelry or using anything abrasive). Wipe the front screen with a clean cloth dampened with water. Use even, easy, vertical strokes when cleaning.
- Gently wipe the cabinet surfaces with a clean cloth or sponge dampened in a solution of cool clear water. Use a clean dry cloth to dry the wiped surfaces.
- Occasionally vacuum the ventilation holes or slots in the cabinet back.
- Never use thinners, insecticide sprays, or other chemicals on or near the cabinet, as they might cause permanent marring of the cabinet finish.

GLOSSARY TO TELEVISION TERMS

Round Cable 75Ω * A single solid antenna wire normally matched with a metal plug (F-type) end connector that screws (or pushes) directly onto a 75 Ohm input found on the Television or VCR. (Also known as Coaxial Cable.)

Closed Caption * Broadcast standard which allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired this feature uses on-screen "text boxes" to show dialogue and conversations while the TV program is in progress.

Direct Audio/Video Inputs * Located on the rear of the TV these connectors (RCA phono type plug) are used for the input of audio and video signals. Designed for use with VCRs (or other accessories) in order to receive higher picture resolution and offer sound connection options.

Identify* Method by which a remote control searches and finds an operating code for another product (such as a VCR or Cable Converter). Once the code has been "identified" then the TV remote can operate and send commands to the other product.

On Screen Displays (OSD) * Refers to the wording or messages generated by the television (or VCR) to help the user with specific feature controls (color adjustment, programming, etc.).

Menu * An on-screen listing of feature controls shown on the Television screen that are made available for user adjustments.

Multichannel Television Sound (MTS) * The broadcast standard that allows for stereo sound to be transmitted with the TV picture.

Programming * The procedure of adding or deleting channel numbers into the Television's memory circuits. In this way the Television "remembers" only the locally available or desired channel numbers and skips over any unwanted channel numbers.

Remote Sensor Window * A window or opening found on the Television control panel through which infrared remote control command signals are received.

Setup Mode * Automatic feature control settings made by the TV. Designed for first time set-up and use. Settings for signal connections (antenna or cable TV), plus channel program memory are held in the TV's memory (even if the set is unplugged and moved to a new location.)

Second Audio Program (SAP) * Another or additional audio channel provided for in the Multichannel Television Sound (MTS) broadcast standard. The most frequently proposed use for SAP is the simultaneous bilingual broadcast of TV program material.

Status * Allows the user to quickly confirm what channel number is currently being viewed. Status can also be used to clear the Television of on screen displays or information (rather than waiting for the displays to "time out" or automatically disappear from the screen).

Twin Lead Wire * The more commonly used name for the two strand 300 Ohm antenna wire used with many indoor and outdoor antenna systems. In many cases this type of antenna wire requires an additional adapter (or balun) in order to connect to the 75 Ohm Input terminals designed into the more recent Televisions and VCRs.

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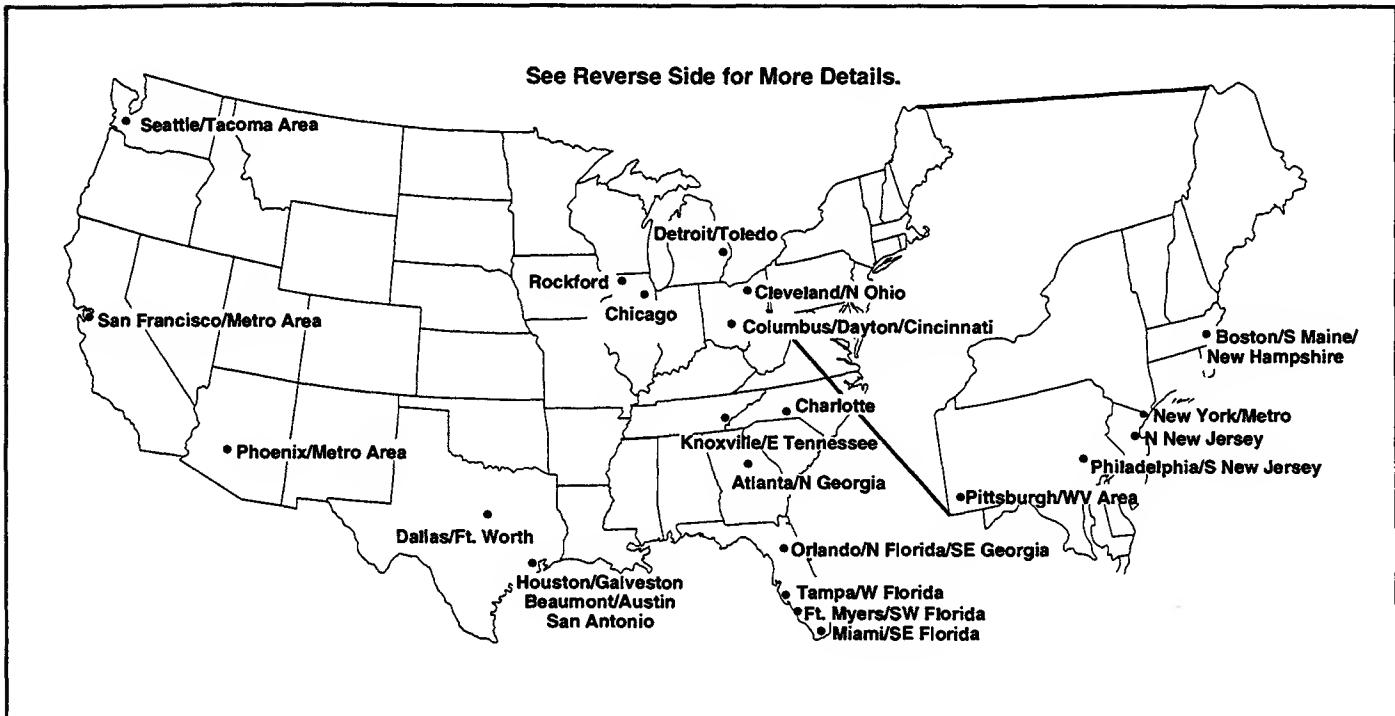


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* Information contained in Quick-Use (Q/U) Guide-page listed.

Philips Consumer Electronics Company

Factory Service Center Locations



NOTE: If you reside in one of our Philips Factory Service Branch areas (see directory on back), you can contact the nearest Service Branch to obtain efficient and expedient repair for your product. If your product is In-Warranty, you should have proof-of-purchase to ensure No Charge Service. For Out-of-Warranty service, call the location nearest you.

NOTA: Si vous résidez dans une des régions desservies par une succursale de service après vente du fabricant Philips (voir liste ci-dessous), vous pourrez contacter la branche de service après vente la plus près de chez vous pour obtenir un service après vente rapide et efficace. Si le produit est sous garantie, il suffira de présenter une preuve d'achat pour bénéficier d'un service sans frais. Pour les produits non couverts par la garantie, contactez le centre le plus près de chez vous.

NOTA: Si Ud. reside en una de nuestras zonas para sucursales Philips de servicio al de fábrica (ver directorio más abajo), Ud. puede comunicarse con la sucursal de servicio más cercana para obtener una reparación oportuna y eficaz de su producto. Si su producto está todavía bajo garantía, Ud. debe presentar comprobante de compra para no ocasionar ningunos cargos por servicio. Para servicio después del vencimiento de la garantía, llame al lugar más cercano de los abajo indicados.

In Canada

How you can obtain efficient and expedient carry-in, mail-in, or in-home service for your product
Please contact Philips at
1-800-661-6162 (French speaking)
1-800-363-7278 (English speaking)

Au Canada

Comment obtenir le service après-vente pour les produits apportés ou envoyés par la poste à notre centre de service ou le service à domicile
Veuillez contacter philips à:
1-800-661-6162 (Francophone)
1-800-363-7278

En el Canadá

Cómo recibir servicio eficiente para su producto, en persona, por correo o a domicilio
Favor de comunicarse con Philips al:
1-800-661-6162 (francófono)
1-800-363-7278 (anglófono)

QUALITY SERVICE IS AS CLOSE AS YOUR TELEPHONE! SIMPLY LOOK OVER THE LIST BELOW FOR THE NUMBER OF A FACTORY SERVICE CENTER NEAR YOU. YOUR PRODUCT WILL RECEIVE EFFICIENT AND EXPEDIENT CARRY-IN, MAIL-IN, OR IN-HOME SERVICE, AND YOU WILL RECEIVE PEACE OF MIND, KNOWING YOUR PRODUCT IS BEING GIVEN THE EXPERT ATTENTION OF PHILIPS' FACTORY SERVICE. AND, IF THE PHONE NUMBER LISTED FOR YOUR AREA IS LONG DISTANCE, CALL 1-800-242-9225 FOR FACTORY SERVICE.

COMMENT OBTENIR NOTRE SERVICE APRÈS VENTE RAPIDE ET EFFICACE SOIT PAR COURRIER, À DOMICILE, OU EN SE PRÉSENTANT À UN CENTRE DE SERVICE PHILIPS. PLUS DE 600 CENTRES DE RÉCEPTION DE PRODUITS À RÉPARER À TRAVERS LE PAYS: CONTACTER LE CENTRE DE SERVICE AUX CONSOMMATEURS LE PLUS PROCHE POUR SAVOIR L'EMPLACEMENT DE CES DÉPÔTS DANS UN RAYON DE 50 À 75 MILES (80 KM À 120 KM) OU CENTRE DE SERVICE LOCAL.

CÓMO OBTENER UN SERVICIO OPORTUNO Y EFICIENTE POR CORREO, EN CASA O EN PERSONA PARA SU PRODUCCIÓN A TRAVÉS DE UN CENTRO PHILIPS DE SERVICIO. MAS DE 600 SITIOS POR TODO EL PAÍS PARA LA RECEPCIÓN DE PRODUCTOS NECESITADOS DE REPARACIONES: COMUNICARSE CON EL CENTRO DE SERVICIO DE FABRICA MAS CERCANO PARA ESTOS LUGARES DENTRO DE UN RÁDIO DE 80 A 120 KM (50 A 75 MILLAS) DEL CENTRO DE SERVICIO LOCAL.

Atlanta—Athens—Macon—Chattanooga, TN—North Georgia Area 200 North Cobb Parkway Building 100, Suite 120 Marietta, GA 30062 (770) 795-0085	Detroit/Toledo Area 25173 Dequindre Madison Heights, MI 48071 (810) 544-2110	Orlando—Jacksonville—North Florida—Southeast Georgia Area 2452 Sand Lake Road Orlando, FL 32809 (407) 857-8998
Boston—Southern Maine— Southern New Hampshire Area 1 North Avenue Burlington, MA 01803 (617) 272-4825	Knoxville—Greeneville— Tri Cities—East Tennessee Area 6700 D. Papermill Road Papermill Plaza Knoxville, TN 37919 (423) 584-6614	Philadelphia/S. New Jersey Area 352 Dunks Ferry Road Bensalem, PA 19020 (215) 638-7500
Charlotte—Winston Salem— Greensboro—Chapel Hill—Raleigh— Spartanburg, SC Area 520-G Clanton Road Charlotte, NC 28217 (704) 529-6330	Ft. Myers—Naples— Southwest Florida Area 11601 Cleveland Ave., Suite 15 Ft. Myers, FL 33907 (813) 278-4242	Phoenix—Scottsdale—Mesa—Tempe Area 5032 S. Ash Avenue, Ste. 101 Tempe, AZ 85282 (602) 897-7358
Chicago—Gary Area 1360 W. Hamilton Parkway Itasca, IL 60143 (630) 775-0990	Houston—Galveston—Beaumont—Austin— San Antonio Area 1110 North Post Oak Road Suite 100 Houston, TX 77055 (713) 682-3990	Pittsburgh, PA—Steubenville, OH— Wheeling/Morgantown, WV Area 2891 Banksville Road Pittsburgh, PA 15216 (412) 563-8020
Cleveland—Akron—Youngstown Area 24090 Detroit Road Westlake, OH 44145 (216) 899-2040	Miami—Southeast Florida Area 2099 W. Atlantic Blvd. Pompano Beach, FL 33069 (305) 978-0467	Rockford—Kenosha—Beloit—Madison Area 5602 N. Second Loves Park, IL 61111 (815) 654-7343
Columbus—Dayton—Cincinnati Area 6333 Busch Blvd. Columbus, Ohio 43229 (614) 781-2605	North NJ—Staten Island— Rockland County, NY Area 140J Commerce Way Totowa, NJ 07512 (201) 890-7200	San Francisco—Oakland—San Jose Area 3370 Montgomery Drive Santa Clara, CA 95054 (408) 492-9013
Dallas—Ft. Worth Area 13375 Stemmons Freeway, Suite 200 Dallas, Texas 75234 (214) 243-4775	New York Metro Area 116 Charlotte Avenue Hicksville, NY 11801 (516) 933-1780 Nassau County	Seattle—Tacoma/Olympia Area 1055 Andover Park East Tukwila, WA 98188 (206) 575-6288
		Tampa—St. Petersburg—Sarasota Area Center Point Business Park, Building B-1, Suite 100 1911 U.S. Hwy. 301 North Tampa, FL 33619 (813) 621-8181

LIMITED WARRANTY

COLOR TELEVISION

90 Days Free Labor

One Year Free Replacement of Parts (Two Years Free Replacement on Color Picture Tube)
This product can be repaired in-home.

WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase.

WHAT IS COVERED?

Warranty coverage begins the day you buy your product. For 90 days thereafter, all parts will be repaired or replaced free, and labor is free. From 90 days to one year from the day of purchase, all parts will be repaired or replaced free, but you pay for all labor charges. From one to two years from the day of purchase, you pay for the replacement or repair of all parts except the picture tube, and for all labor charges. After two years from the day of purchase, you pay for the replacement or repair of all parts, and for all labor charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

WHAT IS EXCLUDED?

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics Company.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- a product used for commercial or institutional purposes.

WHERE IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics Company. In countries where Philips Consumer Electronics Company does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

MAKE SURE YOU KEEP...

Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

BEFORE REQUESTING SERVICE...

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

TO GET WARRANTY SERVICE IN U.S.A., PUERTO RICO OR U.S. VIRGIN ISLANDS...

Contact a Philips factory service center (see enclosed list) or authorized service center to arrange repair.

(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

TO GET WARRANTY SERVICE IN CANADA...

Please contact Philips at:

1-800-661-6162 (French Speaking)
1-800-363-7278 (English Speaking)

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

REMEMBER...

Please record the model and serial numbers found on the product below. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL # _____

SERIAL # _____

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Philips Service Company, P.O. Box 555, Jefferson City, Tennessee 37760, (423) 475-8869